

# 1980 Government Microcircuit Applications Conference

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July 31, 1980

Procurement Management Staff/OL  
Central Intelligence Agency  
Washington, D.C. 20505

Dear Sirs:

I am writing on behalf of the Steering Committee for the 1980 Government Microcircuits Applications Conference (GOMAC) and would like to extend an invitation to your organization to take part in our activities. GOMAC conferences are designed to present the state of the art developments and applications of microcircuits by government agencies and their contractors to the government technical community. These disclosures are usually well in advance of available literature and attendees often find applications presented that are applicable to their own needs.

We would welcome your attendance at these conferences either to hear or present papers and would like especially to invite you to participate in organizing and sponsoring these conferences. If you would like to send a representative to our next steering committee meeting, please feel free to call me on (301) 443-6110 for information as to the exact location and time.

I am enclosing some general information brochures and a copy of our final call for papers to illustrate the scope and areas of interest for our conferences. As can be seen from the listing, we cover considerably more than microcomputers which are implicitly included in most microcircuit applications today. If you would like a sample copy of the 1978 Proceedings, I will be happy to send you a copy.

Sincerely yours,

Richard G. Cummings, Chairman  
GOMAC Inter Agency Coordination  
c/O U. S. Postal Service Research & Development Laboratories  
11711 Parklawn Drive  
Rockville, Maryland 20852

Enclosures

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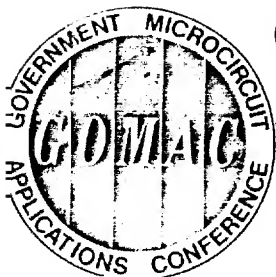
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# GOMAC 80 Call-For-Papers

## 1980 Government Microcircuit Applications Conference

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Wed./Thurs./Fri.-19, 20, 21 November 1980 Shamrock Hilton . . . Houston, Texas

Sponsors: Army . . . Navy . . . Air Force . . . National Aeronautics and Space Administration . . . National Bureau of Standards . . . U.S. Postal Service . . . Defense Logistics Agency . . . Department of Energy . . . National Security Agency . . . Department of Health, Education & Welfare . . . Department of Transportation

The 1980 Government Microcircuit Applications Conference will feature microelectronic applications and development trends derived from Government-sponsored military and non-military efforts. This GOMAC will focus on the central theme of Directions of Government Electronics for the 1980s including VLSI and Terrestrial Applications of Aerospace Technology. Classified and unclassified papers will be presented.

Papers arising out of programs sponsored or conducted by Government agencies are invited. Papers presented at the Conference will be published in the Conference Digests.

Areas of interest to the Conference include, but are not restricted to:

Digital Signal Processing  
Microwave Systems/Technology  
Biomedical Electronics  
Gigabit Logic  
Reliability & Maintainability  
Analog Signal Processing  
Fabrication & Photolithography  
Direct Energy Conversion  
Design for Testability  
Built-in Test  
Radiation Hardening  
Self Repair  
Life Cycle Cost Modeling/Analysis

Programmable Signal Processing  
Architecture & Simulation  
Packaging & Assembly  
Earth Sensor Techniques  
Voice Processing & Synthesis  
Energy Electronics  
Electro Optics  
Radar/Sonar  
Hybrid/Monolithic Technology  
Fault Tolerance  
Logistic Support Methods  
Modular Designs  
Other Microelectronic Topics

You, and members of your organization are invited to submit both a 35-word abstract and a 300-500 word summary, appropriate for a 20-minute oral presentation to:

Hildegard Hammond  
Palisades Institute for Research Services, Inc.  
201 Varick Street  
New York, NY 10014

Deadline for receipt of abstract and summary: April 9, 1980.

Please complete and return this form to help keep our mailing list current. Detach at perforation and mail to: US Army ET&DL Lab, DELET-MK (K.H. Fischer), Ft. Monmouth, NJ 07703. A postpaid envelope is enclosed.

1. Do you wish to remain on the mailing list for GOMAC announcements? ☐ Yes ☐ No
2. If you know of others who would be interested in receiving these mailings, please list their names and addresses below.

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3. Make any address corrections directly on the mailing label below. (Home address is preferred.)

Edward D. Graham, Jr.  
Division 2112  
Sandia Laboratories  
Albuquerque, NM 87185  
Phone: (505) 264-6449  
AV: 964-6449

or

Konrad H. Fischer  
U.S. Army ERADCOM  
Attn.: DELET-MK  
Fort Monmouth, NJ 07703  
Phone (202) 544-4547  
AV: 995-4547

Papers will be selected on the basis of the summaries which should, therefore, clearly describe the results obtained and include any illustrations necessary for clarification.

The 35-word abstract, suitable for publication in a program, should be typed on a separate sheet. It shall include the unclassified title, author's name, affiliation, complete address, and telephone number.

Summaries (original and ten copies) should be typed on one side, in a double-spaced format. The heading shall include unclassified title, security classification of the paper, agency sponsorship, contract number, author's name, affiliation, complete address, and telephone number. Only the author's name and paper title need be placed on each subsequent page heading.

Authors of papers selected for presentation at the Conference will be asked to prepare approximately 2000-word, illustrated condensations for inclusion in Conference Digests. Two editions will be published: an unclassified volume, available at the Conference, and a classified volume which will be distributed by mail to qualified recipients.

Papers with classification up to and including Confidential may be presented at the classified session of the Conference. Attendance of the classified session will be limited to U.S. citizens and immigrant aliens with the requisite clearance and certified need-to-know. Details concerning conditions for attendance will be announced in the program.

The 1980 GOMAC Conference Chairman and Deputy Chairman are:

Conference Chairman:

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Phone: (202) 697-4198  
AV: 227-4198

Deputy Chairman:

Ellison C. (Dick) Urban  
Naval Ocean Systems Center  
271 Catalina Blvd.  
San Diego, CA 92152  
Phone: (714) 225-2752  
AV: 933-2752

**Post-Deadline Papers:** A limited number of post-deadline papers reflecting important new developments will be considered for 10-minute presentations. 100-word abstracts and 300-500 word summaries with pertinent illustrations suitable for publication must be received by September 1, 1980.

**Paper Awards** to be presented are: **Outstanding Paper of the Conference** (award based on audience evaluations of the papers in the daytime sessions), one or more **Meritorious Paper** awards for the runners-up; and, for the first time at GOMAC, **Outstanding Paper of the Poster Session**.

**Poster Session:** Because of the three-day time frame of the Conference, only a limited number of papers can be accorded a regular verbal presentation. However, in order to better fulfill the GOMAC charter, an evening Poster Session will accommodate additional papers. The authors of these papers will be on hand to discuss their work and answer questions. The written papers accompanying these poster presentations will be published in the Conference Digest.

## Steering Committee Members

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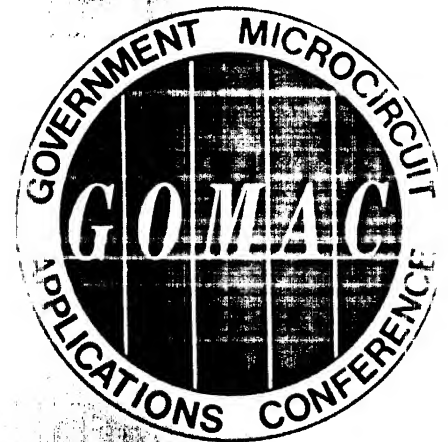
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## Participating Government Activities

Department of Defense  
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Department of the Navy  
Department of the Air Force  
National Aeronautics and Space  
Administration  
Department of Energy  
Department of Commerce, National  
Bureau of Standards  
Department of Health, Education and  
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# Government Microcircuit Applications Conference



Founded in 1968

## Objectives

The objectives of GOMAC are to:

- review current microcircuit application efforts,
- exchange technical information on research and development design, engineering, reliability and standardization,
- assess R&D trends,
- accelerate microcircuit applications in systems development, and
- promote technology transfer.

This is accomplished through exposure and participation in a comprehensive technical program and distribution of the Conference digests. Government, industry and academic representatives participate in this biennial conference.

## Background

The Government Microcircuit Applications Conference had its origin in the Navy Microelectronics Panel which was jointly sponsored by the Chief of Naval Research and the Chief of Naval Development. The first two GOMAC meetings held in 1968 and 1969 in Washington, D.C. were sponsored by the Department of Defense, the Army, Navy, Air Force, NASA, the Department of Commerce, and the Post Office Department. In 1970, the Conference was held at Fort Monmouth, N.J. Following this it became a biennial conference with meetings held at San Diego, California (1972), Boulder, Colorado (1974), Orlando, Florida (1976) and Monterey, California (1978). GOMAC '80 will be held in Houston, Texas on November 19, 20 and 21 and GOMAC '82 is projected for the eastern portion of the U.S.

## Activities

Through the cooperation of a number of U.S. Government agencies, universities, and industry, GOMAC is an efficient means to promote the interchange of science and technology R&D among scientists, engineers and administrators in the United States.

The Conference programs reflect a blend of information which has recently been or soon will be published in U.S. Government and/or IR&D reports, as well as technical papers covering developmental/ application advancements. GOMAC serves as a catalyst in the dissemination of useful information resulting from literally hundreds of programs sponsored by U.S. Government agencies.

An especially rewarding aspect of GOMAC is that it provides a preview of many findings that have been extremely useful to U.S. Government agencies and to civilian economy through technology transfer. From such exposure, by the participants, trends may be derived, requirements predicted, and plans formulated for efficient and rapid acceleration of advanced microelectronic technology development and systems. Information exchanged at the Conference has also helped to minimize duplication among R&D programs.

## Publications

A Conference Digest is published and is made available at the Conference for registered attendees. Additional copies may be purchased.

## Program Content

Many timely facets of the microcircuit field are covered in more than 60 carefully selected, invited, contributed, and keynote papers in parallel sessions at the three-day Conference. Emphasis is on technology transfer and there are no commercial exhibits or elaborate social events at GOMAC. Areas of interest at the Conference include, but are not restricted to:

Digital Signal Processing  
Microwave Systems/Technology  
Biomedical Electronics  
Gigabit Logic  
Reliability & Maintainability  
Analog Signal Processing  
Fabrication & Photolithography  
Direct Energy Conversion  
Design for Testability  
Built-in Test  
Radiation Hardening  
Self Repair  
Life Cycle Cost Modeling And  
Navigation  
Automotive Applications  
Special Microprocessors And  
Programmable Signal Processors  
Architecture & Simulation  
Packaging & Assembly  
Earth Sensor Techniques  
Voice Processing & Synthesis  
Energy Electronics  
Electro Optics  
Radar/Sonar  
Hybrid/Monolithic Technology  
Fault Tolerance  
Logistic Support Methods  
Modular Designs  
Other Microelectronic Topics

**For Additional Information** Contact a member of the GOMAC Steering Committee. The members are listed on the reverse side of this brochure.

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